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In re application of:	Kapeller-Libermann, Rosana				
Application No.:	10/658,904 Group No.: 1653				
Filed:	September 10, 2003	Examiner:	Monshipouri, Maryam		
For:	14171 PROTEIN KINASE, A NOVEL HUMAN PROTEIN KINASE AND USES THEREOF				

Practitioner's Docket No. (MPI00-010P1RCP1M)

**PATENT** 

Certificate of Transmission under 37 CFR 1.8

1-571-273-8300

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office

on June 14, 2006

Signature

Paula Swirka

Typed or printed name of person signing Certificate

Submitted herewith:

This Certificate of Transmission under 37 CFR 1.8 Transmittal of Petition under 37 CFR 1.181 (in duplicate) Petition under 37 CFR 1.181

1 page 4 pages

7 pages

Total 12 pages

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# Practitioner's Docket No. MPI00-010P1RCP1M IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Kapeller-Libermann, Rosana				
Application No.:	10/658,904 Group No.: 1653				
Filed:	September 10, 2003	Examiner:	Monshipouri, Maryam		
For:	14171 PROTEIN KINASE, A NOVEL HUMAN PROTEIN KINASE AND USES				
	THEREOF				

Mail Stop AF (Technology Center 1600) Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

# TRANSMITTAL OF PETITION UNDER 37 CFR 1.181

- 1. Transmitted herewith for this application are:
  - This Transmittal of Petition under 37 CR 1.181 (2 pages, in duplicate);
  - b. Petition under 37 CR 1.181 (7 pages);
  - c. Certificate of Transmission under 37 CFR 1.8 (1 page).

### STATUS

2. Applicant is other than a small entity.

# PETITION FOR EXTENSION OF TIME

3. The proceedings herein are for a patent application and the provisions of 37 C.F.R. 1.136 apply. Applicant believes that an extension of time is not required. However, if an extension of time is required, please consider this a petition therefor.

Fee: \$0 Extension fee due with this request \$0

If an additional extension of time is required, please consider this a petition therefor.

### CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10\* I hereby certify that, on the date shown below, this correspondence is being: MAILING deposited with the United States Postal Service in an envelope addressed to the Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. 37 C.F.R. SECTION 1.8(a) 37 C.F.R. SECTION 1.10\* as "Express Mail Post Office to Addressee" with sufficient postage as first class mail. Mailing Label No. TRANSMISSION 区 transmitted by facsimile to the Patent and Trademark Office (571-273-8300). Signature Paula Swirka Date: \_\_\_ June 14, 2006 (type or print name of person certifying)

\*WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Page 1 of 2)

# Practitioner's Docket No. MPI00-010P1RCP1M

### FEE FOR CLAIMS

4. The fee for claims (37 C.F.R. 1.16(b)-(d)) has been calculated as shown below:

	(Col. 1)		(Col. 2)  Highest No.  Previously Paid  For		(Col. 3)	OTHER THAN A SMALL ENTITY		Addit. Fee
Claims Remaining Aft Amendment					Present Extra	Rate		
Total	20	Minus	20	=	0	\$50.00	=	\$0.00
Indep.	2	Minus	3	=	0	\$200.00	=	\$0.00
First Presentation of Multiple Dependent Claims		0			\$360.00	=	\$0.00	
						Total Addit. Fee		\$0.00

Total additional fee for claims required

\$0.00

FEE PAYMENT

5. Charge Account No. 501668 the Petition fee of \$130.00 (which includes the \$0.00 extension fee and the \$0.00 additional fee for claims). A duplicate of this transmittal is attached.

# **FEE DEFICIENCY**

- 6. If any additional extension and/or fee is required, charge Account No. 501668. If any additional fee for claims is required, charge Account No. 501668.
- 7. Correspondence Address
  Direct all future correspondence to:

**Customer Number 30405** 

OR

Intellectual Property Department MILLENNIUM PHARMACEUTICALS, INC.

40 Landsdowne Street Cambridge, MA 02139

June 14, 2006

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# Practitioner's Docket No. MPI00-010P1RCP1M

**PATENT** 

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Kapeller-Libermann, Rosana

Application No.:

10/658904

Group No.:

1653

Filed:

September 10, 2003

Examiner:

Monshipouri, Maryam

For:

14171 PROTEIN KINASE, A NOVEL HUMAN PROTEIN KINASE AND USES

THEREOF

MAIL STOP TECHNOLOGY CENTER 1600 AFTER FINAL Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

# PETITION UNDER 37 C.F.R. § 1.181

# **PETITION**

1. Pursuant to 37 C.F.R. § 1.181, Applicant petitions for withdrawal of the finality of the rejection made in the Office communication mailed April 14, 2006.

The application as filed contained 20 claims, which were restricted into eight groups in a communication by the Examiner on August 1, 2005. The groups comprised either product or process claims. There was no species election requirement attached to any group. In response, Applicant elected Group II, drawn to "said human kinase and homologs thereof." Since Group IV of claims were drawn to a method of modulating the activity of the kinase, these original claims, which depended from the claims of Group II, were retained as withdrawn, with hope of later rejoinder if the elected claims would be allowed.

## CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10\* I hereby certify that, on the date shown below, this correspondence is being: deposited with the United States Postal Service in an envelope addressed to the Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. 37 C.F.R. SECTION 1.10\* 37 C.F.R. SECTION 1.8(a) as "Express Mail Post Office to Addressee" with sufficient postage as first class mail. Mailing Label No. TRANSMISSION $\square$ transmitted by facsimile to the Patent and Trademark Office (571-273-8300). Signature Paula Swirka Date: 14 June 2006 (type or print name of person certifying)

(Petition -- Page 1 of 7)

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During that restriction response, Applicant canceled claims drawn to non-elected and unrelated groups and amended and added claims to be included the elected group II and withdrawn group IV. The first office action on the merits examined only the claims of the elected group. The response to that action was to cancel one dependent claim and add one new claim, both within the elected group. The claim cancellation rendered the claims of the elected group allowable, so the Examiner then turned to the question of rejoinder of the method claims which depended on the product claims.

Applicant is including the listing of claims below and annotating the history of activities around the claims to illustrate petition points 1) and 2) further below:

- 1.-4. (Canceled in response to restriction requirement)
- 5. (elected Group II-Amended in response to restriction requirement, not amended in response to first office action, allowed in 1<sup>st</sup> office action) An isolated polypeptide selected from the group consisting of:
  - a) a polypeptide which is encoded by a nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of the nucleotide sequence of SEQ ID NO:1 and SEQ ID NO:3; and
- b) a fragment of a polypeptide comprising the amino acid-sequence of SEQ ID NO:2, wherein the fragment comprises at least 300 contiguous amino acids of SEQ ID NO:2 and wherein said at least 300 contiguous amino acids have kinase activity;
- c) an antigenic fragment of SEQ ID NO:2 comprising at least 15 amino acid residues of SEQ ID NO:2; and
- d)——a polypeptide having the comprising amino acid sequence residues 1 to 350 of SEQ ID NO:2, wherein the polypeptide has kinase activity.
- 6. (Original-elected group II, allowed in 1<sup>st</sup> office action) The polypeptide of claim 5 further comprising heterologous amino acid sequences.
- 7. 11. (Canceled in response to restriction requirement)

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- 12. (Original- Group IV claim withdrawn in response to restriction requirement depends on claim allowed in 1<sup>st</sup> office action, not rejoined even though it depends on elected claim allowed in 1<sup>st</sup> office action) A method for identifying a compound which binds to a polypeptide of claim 5 comprising the steps of:
- a) contacting a polypeptide, or a cell expressing a polypeptide of claim 5 with a test compound; and
  - b) determining whether the polypeptide binds to the test compound.
- 13. (Group IV-Amended in response to restriction requirement, withdrawn, not rejoined) The method of claim 12, wherein the binding of the test compound to the polypeptide is detected by a method selected from the group consisting of:
  - a) detection of binding by direct detecting of test compound/polypeptide binding;
  - b) detection of binding using a competition binding assay; and
  - c) detection of binding using an assay for protein kinase-mediated phosphorylation; and
  - d) detection of binding using a two-hybrid assay.
- 14. (Canceled in response to restriction requirement)
- 15. (Original-Group IV claim withdrawn in response to restriction requirement- depends on claim allowed in 1<sup>st</sup> office action, rejoined and rejected in 2<sup>nd</sup> office action) A method for identifying a compound which modulates the activity of a polypeptide of claim 5, comprising:
  - a) contacting a polypeptide of claim 5 with a test compound; and
- b) determining the effect of the test compound on the activity of the polypeptide to thereby identify a compound that modulates the activity of the polypeptide.
- 16. (Original-Group IV claim withdrawn in response to restriction requirement, rejoined and rejected in 2<sup>nd</sup> office action) The method of claim 15, wherein the activity of the polypeptide is determined in a kinase assay using a 14171 kinase substrate.
- 17. 20. (Canceled in response to restriction requirement)

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- 21. (Group II-Added in response to restriction requirement, allowed in 1<sup>st</sup> office action) The polypeptide of claim 5, wherein the polypeptide comprises SEQ ID NO:2.
- 22. (Group II-Added in response to restriction requirement, rejected in 1<sup>st</sup> office action, canceled in response to 1<sup>st</sup> office action) The polypeptide of claim 6, wherein the heterologous amino acid sequences are selected from the group consisting of glutathione-S-transferase, V5 and histidine residues.
- 23. (Group IV-Added in response to restriction requirement, withdrawn, not rejoined) The method of claim 12, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:2.
- 24. (Group IV-Added in response to restriction requirement, withdrawn, not rejoined) The method of claim 12, wherein the polypeptide is immobilized on a solid surface.
- 25. (Group IV-Added in response to restriction requirement, withdrawn, not rejoined) The method of claim 12, wherein the test compound is directly or indirectly labeled.
- 26. (Group IV-Added in response to restriction requirement, withdrawn, rejoined and rejected in 2<sup>nd</sup> office action) The method of claim 15, wherein the activity of the polypeptide is the ability to bind ATP.
- 27. (Group IV-Added in response to restriction requirement, withdrawn, allowed, even though dependent on a rejected claim) The method of claim 15, wherein the polypeptide comprises the amino acid sequence of SEQ ID NO:2.
- 28. (Group IV-Added in response to restriction requirement, withdrawn, rejoined and rejected in 2<sup>nd</sup> office action) The method of claim 16, wherein the 14171 kinase substrate has a T-P motif.
- 29. (Group IV-Added in response to restriction requirement, not rejoined, even though it directly depends on a rejoined claim) The method of claim 15, wherein the polypeptide is expressed in a cell and the test compound is contacted with the cell expressing the polypeptide.

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- 30. (Group IV-Added in response to restriction requirement, not rejoined, even though it indirectly depends on a rejoined claim) The method of claim 29, wherein the activity of the polypeptide is selected from the group consisting of:
  - a) phosphorylation activity; and
  - b) apoptosis.
- 31. (Group IV-Added in response to restriction requirement, not rejoined, even though it indirectly depends on a rejoined claim) The method of claim 29, wherein the cell is selected from a group consisting of an epithelial cell and a tumor cell.
- 32. (Group IV-Added in response to restriction requirement, <u>not rejoined</u>, even though it indirectly <u>depends on a rejoined claim</u>) The method of claim 29, wherein the activity of the polypeptide is determined by determining the activity of a target molecule.
- 33. (Group IV-Added in response to restriction requirement, <u>not rejoined</u>, even though it indirectly <u>depends on a rejoined claim</u>) The method of claim 32, wherein the activity of the target molecule is selected from the group consisting of:
  - a) cellular second messenger activity,
  - b) catalytic/enzymatic activity,
  - c) reporter gene induction, and
  - d) cellular growth, differentiation or proliferation.
- 34. (Group IV-Added in response to restriction requirement, not rejoined, even though it indirectly depends on a rejoined claim) The method of claim 33, wherein the reporter gene induction follows activity selected from the group consisting of nuclear factor-kappaB activity and interleukin-8 activity.
- 35. (Group II-Added in response to 1<sup>st</sup> office action, allowed in 2<sup>nd</sup> office action) An isolated polypeptide consisting of the amino acid sequence of SEQ ID NO:2.

The Examiner's actions at this point have provided me with two reasons to petition in this case.

1) The Examiner decided to rejoin some of the withdrawn claims from the single non-elected

Petition Page 5 of 7

Group IV process invention, but refused to enter all of the withdrawn claims from this group. The nonelected group IV contained three original claims, two of which depended directly from an allowed product claim. One of these was rejoined, the other was not. The claims which were refused rejoinder, including claims that depend on rejoined claims, recited that the kinase product could be in a cell, and the Examiner decided that these method claims were not drawn to an "isolated" polypeptide. However, the restriction requirement did not require the restriction or election between methods of using the polypeptide in solution from using the polypeptide in the cell. The restriction requirement merely grouped the product claims as drawn to the "human kinase" and the process claims as being "drawn to a method of identifying agents which bind or modulate the activity of said kinase." In the absence of a restriction requirement between polypeptides inside or outside the cell, the rejoinder should have applied to all the claims in the withdrawn group. This position is consistent with MPEP §821.04, which states that "all claims to a non-elected process invention must depend from or otherwise require all the limitations of an allowable claim for the claims directed to that process invention to be eligible for rejoinder" (MPEP Rev. 3, August, 2005 page 800-64, reiterated in MPEP §821.04(b) on page 800-68 and page 800-70). If the Examiner considered some of the claims in the withdrawn process group not to be so dependent or contain such limitations, then no rejoinder should have taken place and the restriction requirement should not have been withdrawn. Applicant respectfully requests that either all the claims in group IV be rejoined or the rejoinder be reversed and the restriction requirement be reinstated. If the restriction requirement is reinstated, then Applicant can proceed with canceling all Group IV claims and filing a separate application to claim the process invention of Group IV without threat of double patenting.

2) The Examiner states that Applicant's amendment necessitated making the rejection of the rejoined claims final in this Office action. A) As illustrated in 1) above, the Examiner has somewhat imposed a new restriction requirement, between a polypeptide inside and outside the cell. A restriction requirement should not lead to a final office action. B) Applicant's amendment in response to the first office action on the merits was merely to cancel a dependent claim. The amendment did not change the scope of the claim from which the claims in the non-elected group depend. That claim already was held allowable in the first office action. So even though MPEP §821.04 states that an office action on newly rejoined claims can be made final if rejoinder is after the first office action, the rejoinder occurred relative to claims which were allowable prior to the first office action. Final rejection at this time is only proper where Applicant's amendment or an IDS necessitated the final rejection. The Examiner has not explained how Applicant's amendment necessitated this final rejection. While Applicant could file a request for continued examination to argue the merits of the rejoined claims, Applicant fails to identify a way to achieve examination of non-rejoined process invention Group IV claims dependent from allowed or rejoined claims

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within the confines of that process, with their status as withdrawn claims under an implied restriction requirement. Applicant fails to see how canceling and refiling some, but not all Group IV claims would not attract a double patenting rejection, now that the original restriction has been withdrawn. Applicant cannot appeal the rejected Group IV claims, because they have not been twice rejected. Therefore, Applicant finds options unduly limited by this office action and requests that the Final rejection be reconsidered as premature.

In view of these remarks, Applicant respectfully requests reconsideration of the finality of the Office Action mailed on April 14, 2006 in the present application. By way of disclosure, Applicant has presented some of these comments to Debbie Reynolds and the Examiner in telephone conversations on June 13 and Jun 12, 2006, respectively. Since there has been no resolution and this is the two month deadline, this petition is being filed.

# FEE

A petition fee (37 C.F.R. Section 1.17(i)) of \$130.00. is to be paid as follows:

- Attached is a check in the sum of \$130.00...
- ☑ Charge Deposit Account No. 501668 the sum of \$130.00.

A duplicate of this petition is attached.

14 June 2006	MILLENNIUM PHARMACEUTICALS, INC.
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Petition Page 7 of 7